AMERICAN UNIVERSITY of Beirut OBSERVATORY

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1960

MONTHLY BULLETIN

METEOROLOGICAL SECTION

FRANS BRUIN: DIRECTOR

HALIM HOURANI, OBSERVER

U.S. DEPT. OF COMMERCE
WEATHER BUREAU
JUN 24 1960

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U.S. Dept. of Commerce

BEIRUT, LEBANON

Latitude: 33° 54' 22" N.

Longitude: $2^h\ 21^m\ 52^s.7$ E.

January 1960

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JANUARY 1960

METEOROLOGICAL REGISTER

Date	Barometer reduced to O°C Sea level and 45° Latitude 700 mm. +...				Thermometer Degrees Centigrade					
	8:30	14:30	20:30	Mean	Max.	Min.	8:30	14:30	20:30	Mean
1	55.1	53.0	53.0	53.7	16.0	9.4	15.5	15.5	12.0	14.3
2	58.3	58.7	61.1	59.4	13.9	10.8	12.5	13.5	12.0	12.7
3	63.5	64.0	64.3	63.9	13.8	11.5	12.0	12.0	12.6	12.2
4	65.1	63.7	63.4	64.1	17.1	12.7	12.7	16.3	16.0	15.0
5	61.4	59.8	59.5	60.2	18.1	12.8	15.9	17.4	15.5	16.3
6	57.0	55.2	55.2	55.8	17.8	10.5	13.1	11.8	11.5	12.1
7	53.2	54.4	57.8	55.1	16.4	11.6	11.4	15.9	13.7	13.7
8	59.7	58.9	61.0	59.9	17.0	11.5	15.2	15.9	12.5	14.5
9	63.6	63.3	64.4	63.8	16.1	11.8	12.4	15.0	12.5	13.3
10	66.8	66.0	66.9	66.6	17.7	11.4	13.5	15.0	13.0	13.8
11	67.2	65.4	64.9	65.8	17.1	13.2	13.2	16.7	15.5	15.1
12	63.0	60.9	60.2	61.4	18.5	14.7	15.0	17.7	16.0	16.2
13	59.3	59.0	61.6	60.0	24.5	15.2	17.7	22.0	18.0	19.2
14	63.6	62.9	61.8	62.8	19.2	16.0	16.2	18.8	16.5	17.2
15	60.9	59.6	60.6	60.4	21.7	17.3	18.0	21.3	19.0	19.4
16	63.7	64.2	65.5	64.5	21.7	13.9	18.5	18.5	15.5	17.5
17	66.7	66.1	66.4	66.4	19.0	13.5	15.0	17.5	15.0	15.8
18	65.1	63.1	62.0	63.4	21.2	14.5	14.5	17.8	16.5	16.3
19	61.6	63.8	66.9	64.1	22.8	14.4	19.8	18.8	16.0	18.2
20	67.4	66.6	66.9	67.0	18.5	12.1	14.9	16.3	15.5	15.6
21	64.4	62.7	62.2	63.1	15.7	11.6	12.1	12.2	12.5	12.3
22	61.0	60.5	61.8	61.1	15.2	10.0	13.7	14.4	13.0	13.7
23	65.6	66.7	69.1	67.1	14.0	7.7	10.9	10.2	9.0	10.0
24	70.1	68.1	68.1	68.8	13.1	9.1	9.7	12.0	10.0	10.6
25	67.4	66.1	66.6	66.7	14.3	10.1	10.1	13.2	11.5	11.6
26	67.1	67.4	68.2	67.6	13.9	8.9	11.6	11.8	12.0	11.8
27	70.8	70.5	70.5	70.6	14.3	10.5	10.9	13.7	12.0	12.2
28	70.3	69.5	70.6	70.1	15.7	10.7	12.5	14.6	12.5	13.2
29	71.4	71.0	71.5	71.3	17.5	13.1	13.3	16.0	13.5	14.3
30	70.5	69.3	68.8	69.5	19.2	14.6	14.8	17.0	16.0	15.9
31	66.8	65.7	66.0	66.2	19.5	12.7	15.7	17.5	15.5	16.2
	64.41	63.42	64.09	63.88	17.43	12.19	13.94	15.69	13.94	14.52

Barometer, range for month 771.5 mm. — 753.0 mm.
„ 71-yr. average for month 763.18mm.
Thermometer, range for month 24.5°C — 7.7°C
„ 82-yr. average for month 13.4°C
Rain total for month 162.81 mm.
„ 82-yr average for month 191.3 mm.
„ Total, Sept. 1st. to end of month 443.75 mm.
„ 82-yr average. Sept. 1st. to end of month 566 60 mm.

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METEOROLOGICAL REGISTER

Date	Pressure of Water Vapor Millibars				Relative Humidity per cent.				sun.	Wind per day	Rain
	8:30	14:30	20:30	Mean	8:30	14:30	20:30	Mean	Hrs.	Kms.	m.m.
1	10.3	8.0	10.2	9.4	58	45	71	58	4.4	171	8.68
2	9.6	9.6	9.9	9.7	65	61	70	65	3.6	277	11.48
3	11.7	12.9	13.5	12.7	83	93	93	90	0.0	79	24.16
4	14.2	12.9	11.8	13.0	91	69	65	75	3.6	47	7.26
5	9.0	11.8	12.1	11.0	50	58	69	59	7.6	82	
6	11.1	12.4	11.3	11.6	72	91	82	82	2.6	71	7.35
7	10.9	13.5	11.8	12.1	80	74	76	77	2.7	134	6.05
8	12.8	10.3	13.6	12.2	74	57	94	75	3.5	420	43.13
9	12.9	10.9	9.8	11.2	91	64	66	74	4.1	143	13.40
10	9.6	10.6	10.7	10.3	61	62	71	65	8.4	43	
11	8.5	9.7	10.3	9.5	56	51	58	55	4.5	43	
12	12.0	12.8	13.6	12.8	71	64	74	70	5.2	19	
13	8.9	12.2	16.5	12.5	44	46	80	57	8.3	119	
14	15.2	16.7	16.2	16.0	83	77	87	82	5.4	50	
15	14.6	16.0	17.7	16.1	71	62	81	71	1.5	26	
16	17.5	14.8	13.1	15.1	82	69	74	75	0.8	185	
17	12.0	13.3	12.6	12.6	71	66	74	70	7.1	29	
18	13.2	14.8	10.5	12.8	80	73	55	69	8.7	30	
19	10.3	17.9	11.8	13.3	44	83	65	64	3.0	164	
20	11.5	11.8	11.0	11.4	69	63	62	65	4.6	163	
21	13.0	12.5	12.7	12.7	93	88	88	90	0.5	85	26.10
22	12.5	11.8	9.3	11.2	80	72	62	71	2.3	277	14.90
23	5.7	7.8	5.5	6.3	46	63	48	52	5.5	414	0.30
24	5.5	6.5	6.1	6.0	46	48	50	48	8.8	129	
25	4.8	5.8	7.1	5.9	38	39	52	43	5.8	80	
26	9.9	9.7	8.5	9.4	71	70	60	67	0.0	77	
27	8.0	8.5	8.5	8.3	60	55	60	58	9.0	98	
28	6.9	8.3	9.6	8.3	48	51	65	55	8.3	89	
29	9.5	11.1	10.4	10.3	62	61	66	63	9.1	92	
30	12.1	13.2	13.6	13.0	72	68	74	71	2.7	55	
31	12.3	14.1	13.5	13.3	69	70	76	72	5.1	53	
	10.84	11.68	11.38	11.29	67.1	64.9	69.9	67.3	4.73	120.77	5.25

Height of Barometer above sea level : 33.7 meters.
Height of Thermometers above ground :
Dry and wet 1.25 m. ; Max. 1.30 m. ; Min. 1.50 m.
Hygrometric data from readings of wet and dry bulb thermometers exposed in a Stevenson screen, reduced according to M.O. 265.
Rim of Rain Gauge : above ground 0.66 m. ; above sea level 30.31 m.
Rainfall is read at 20:30 for the preceding 24 hours.
71 year averages are for period, 1875-1945

JANUARY 1960
METEOROLOGICAL REGISTER

Date	Clouds clear—0 Overcast—10				Beaufort, scale Direction and force of wind			Sea	Notes
	8:30	14:30	20:30	Mean	8:30	14:30	20:30		
1	4cu-st	4ci-st	10cu-st	6.0	3sw	3sw	2sw	light	Tr.p.m
2	9cu-st	4cu-st	2ci	5.0	3sw	4sw	2sw	,,	
3	10st-ni	10st-ni	8cu-st	9.3	1se	3sw	4nw	,,	
4	4cu-ci	10st	7ci	7.0	2s	2sw	3sw	,,	Lunar Halo
5	1ci	9ci	10st	6.7	2e	3ne	2ne	,,	
6	8ci-cu	10st-ni	10st-ni	9.3	2s	2e	2sw	light	
7	10st	8cu-st	4cu-st	7.3	2s	3sw	2sw	,,	
8	10st-ni	10st-ni	10st-ni	10.0	5sw	6sw	3sw	slight	
9	10st-ni	5cu-st	4cu-st	6.3	2s	2w	2sw	light	Tr.p.m
10	2cu	1ci	0	1.0	2se	1e	1ne	,,	
11	1ci-st	10st	7st	6.0	1e	2ne	1ne	light	
12	10ci-st	8ci	3ci	7.0	1sw	1ne	1ne	,,	
13	0	0	3ci	1.0	2sw	4sw	2sw	,,	Hot wind
14	10ci	0	0	3.3	2e	2ne	1ne	,,	D.a.m.H.D.Fog.p.m
15	10st	10st	10st-cu	10.0	2e	1ne	2ne	,,	
16	10st	10st	7cu-st	9.0	3sw	3sw	1sw	light	
17	0	5cu-st	0	1.7	1sw	1sw	1sw	,,	H.a.m
18	0	1ci	0	0.3	1e	2ne	1ne	,,	D.a.m
19	9ci-cu	10st	2cu	7.0	2sw	3sw	3sw	,,	
20	10cu-st	8cu-st	7st-ni	8.3	2sw	2n	1ne	,,	Tr.a.m.p.m
21	10ni	10ni	4cu-st	8.0	3s	3sw	3sw	light	
22	10st-ni	6cu	1cu	5.7	4sw	4w	5sw	sligh	
23	8cu-st	8cu-st	0	5.3	5nw	5ne	2ne	,,	
24	3cu-st	3ci	0	2.0	2se	2ne	2ne	light	
25	9ci	4ci	8ci	7.0	2se	2ne	1ne	,,	
26	10st-ni	10st	8cu-st	9.3	4w	3ne	1ne	light	Tr.a.m
27	2cu-st	1cu	2cu	1.7	2se	3ne	1ne	,,	
28	0	0	5cu	1.7	2s	2ne	1ne	,,	
29	10ci	8ci	0	6.0	1e	3sw	1sw	,,	
30	10st	8cu-st	9cu-st	9.0	3s	1sw	1sw	,,	
31	8cu-st	9st	9st	8.7	1sw	1w	1sw	,,	
	mean			6.00					

Abbreviations: G = gale; H = haze; M = mist; T = thunderstorm; D = dew
W = strong wind; Tr = trace of rain

Number of Daily Wind Observations

Time	N	NE	E	SE	S	SW	W	NW	Calm	Totals
8:30	0	0	6	5	7	11	1	1	0	31
14:30	1	12	2	0	0	13	3	0	0	31
20:30	0	14	0	0	0	16	0	1	0	31
Total	1	26	8	5	7	40	4	2	0	93

Number of days with rain 11, fog 0, thunderstorms 0, gale. 0
71 yr. av. number of days with rain during month 15.67
Time of reading minus 2 hours equals G.C.T